

FIG.1A

FIG. 1B

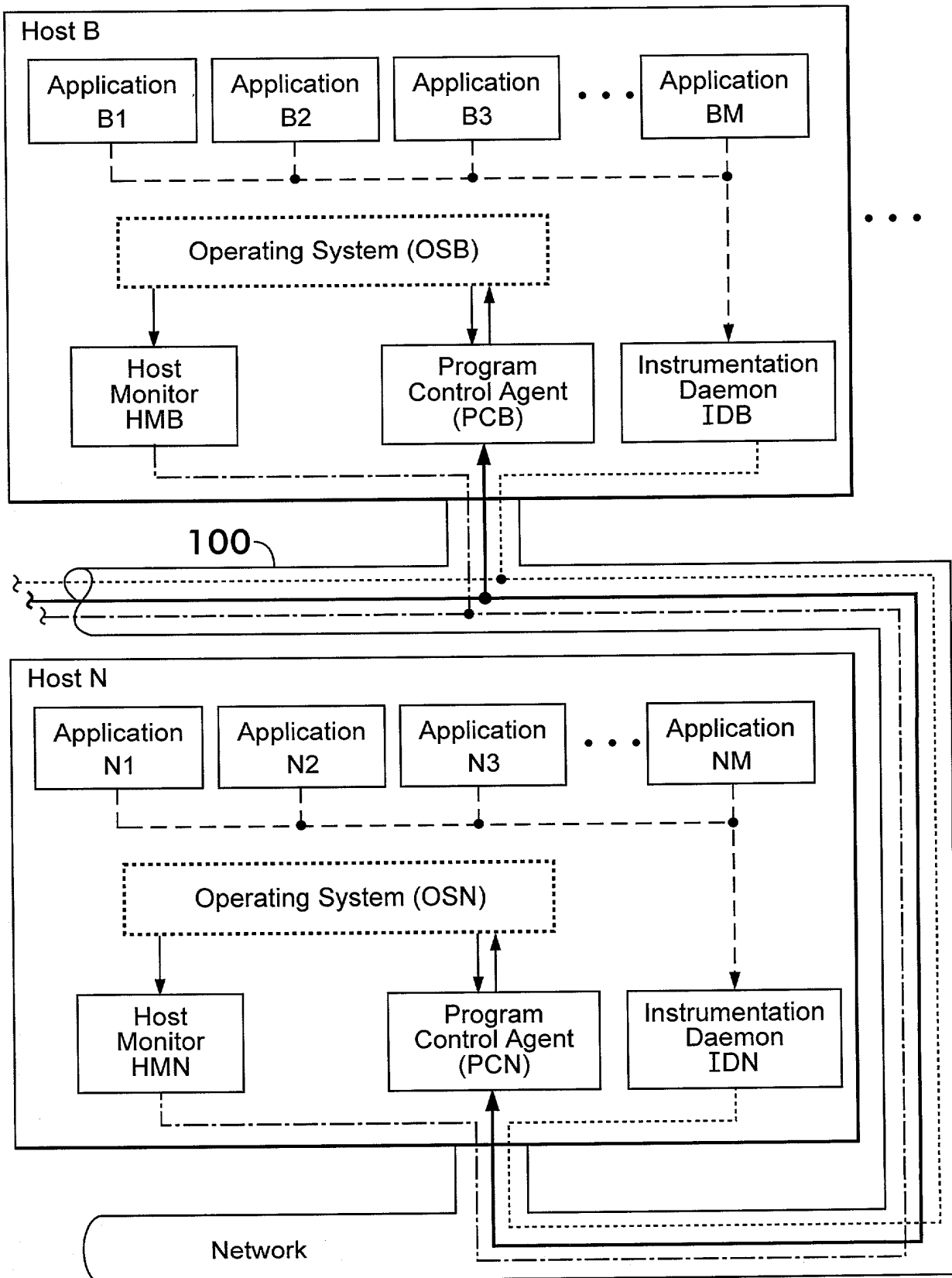
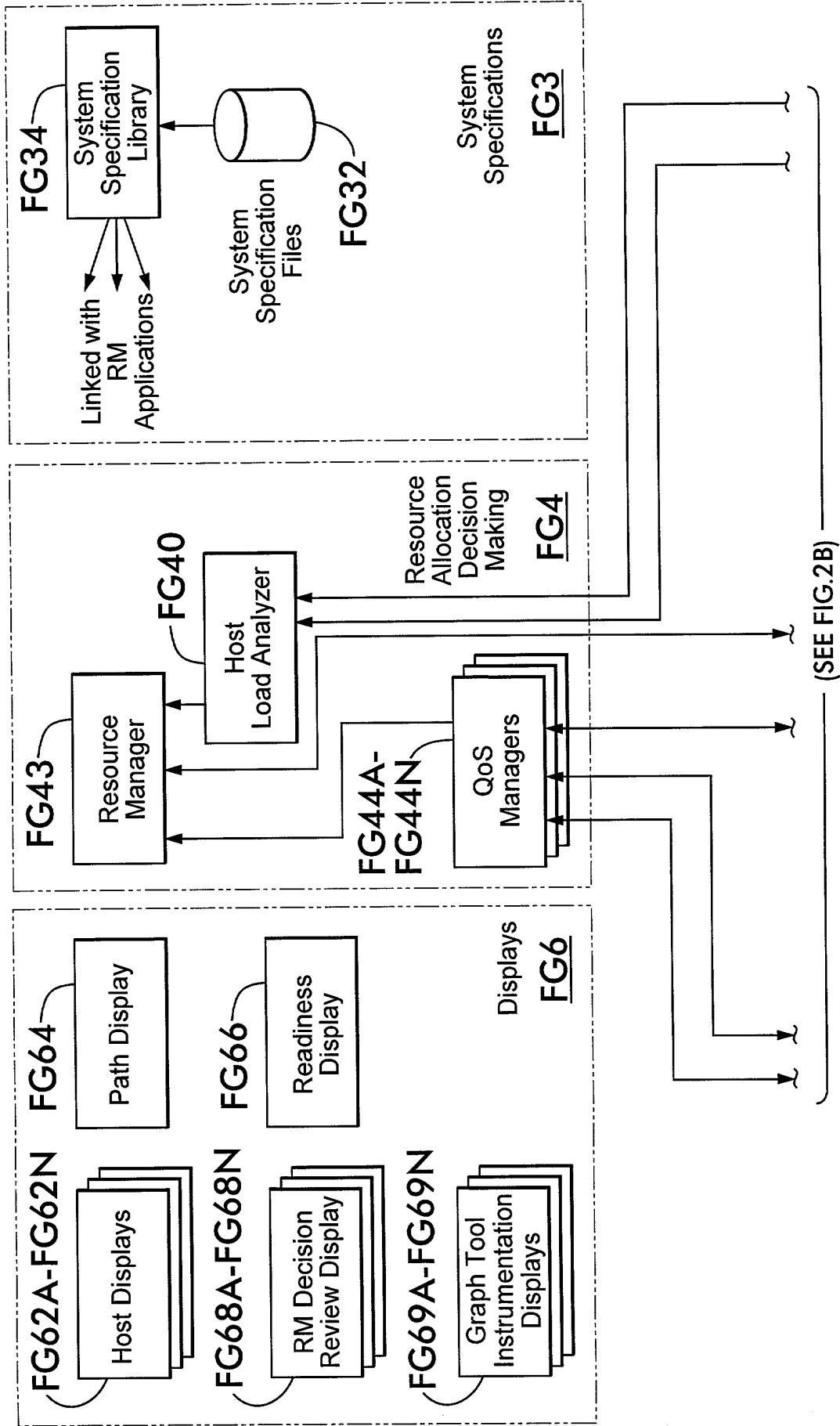
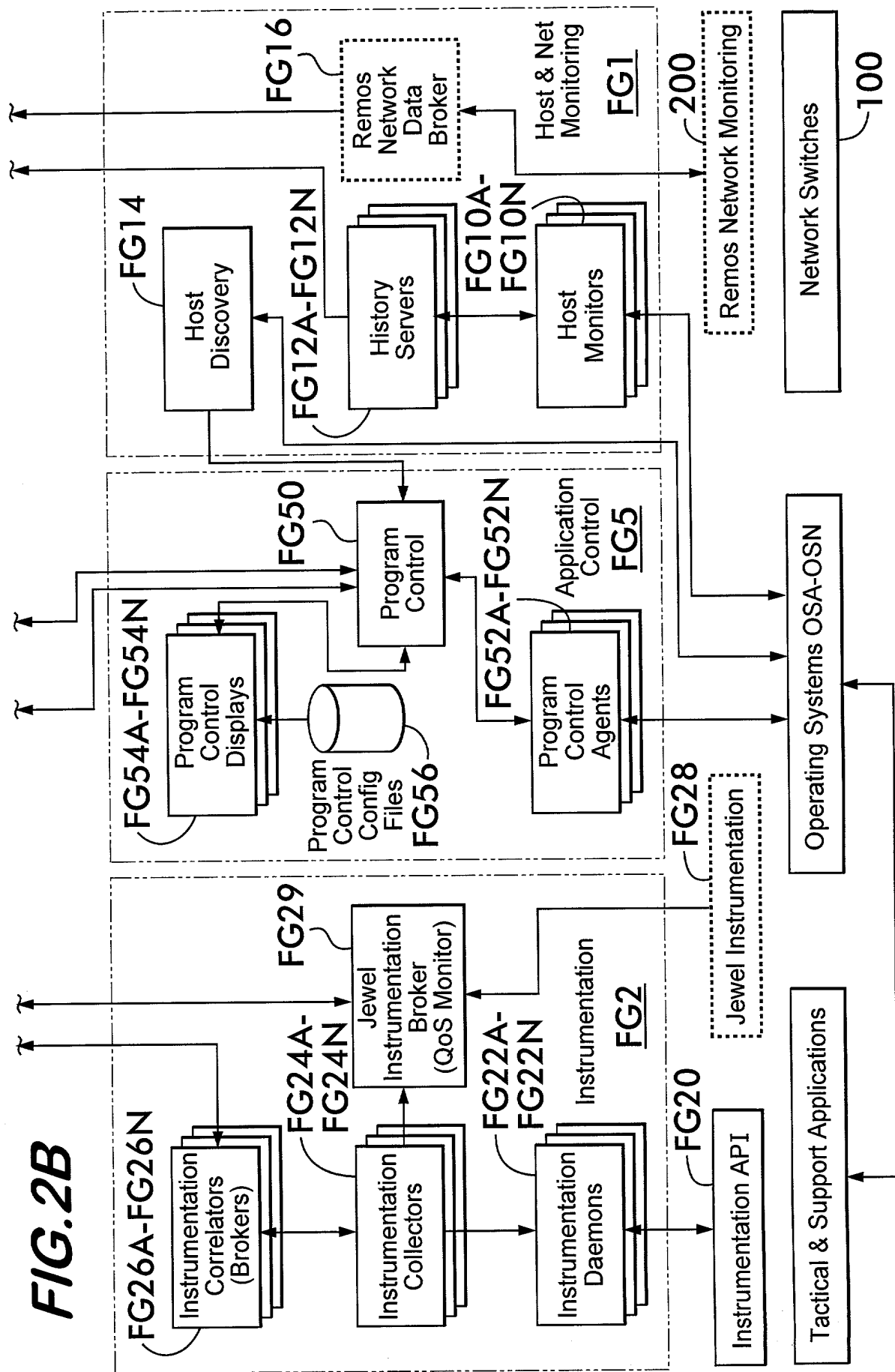


FIG. 2A





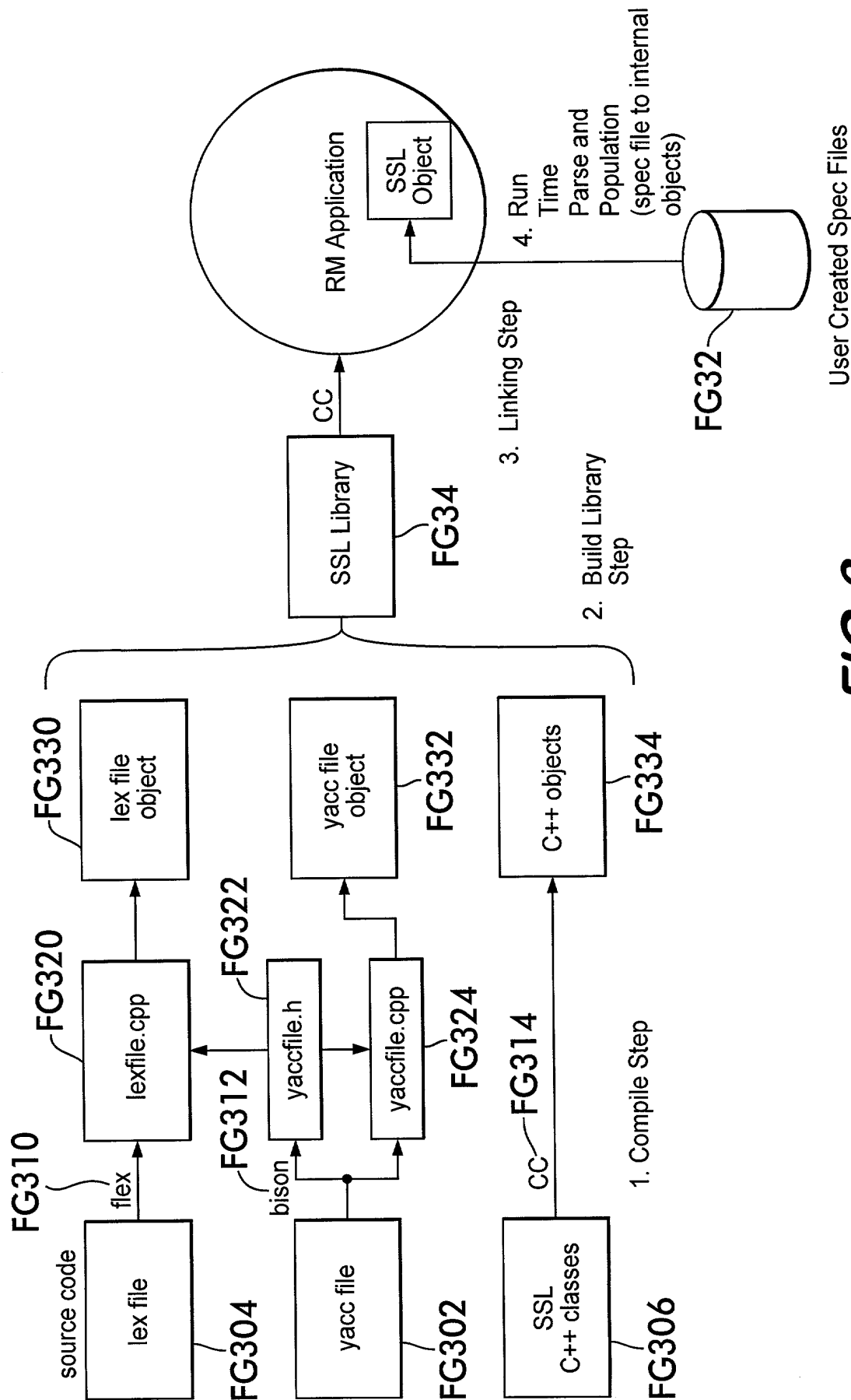


FIG. 3

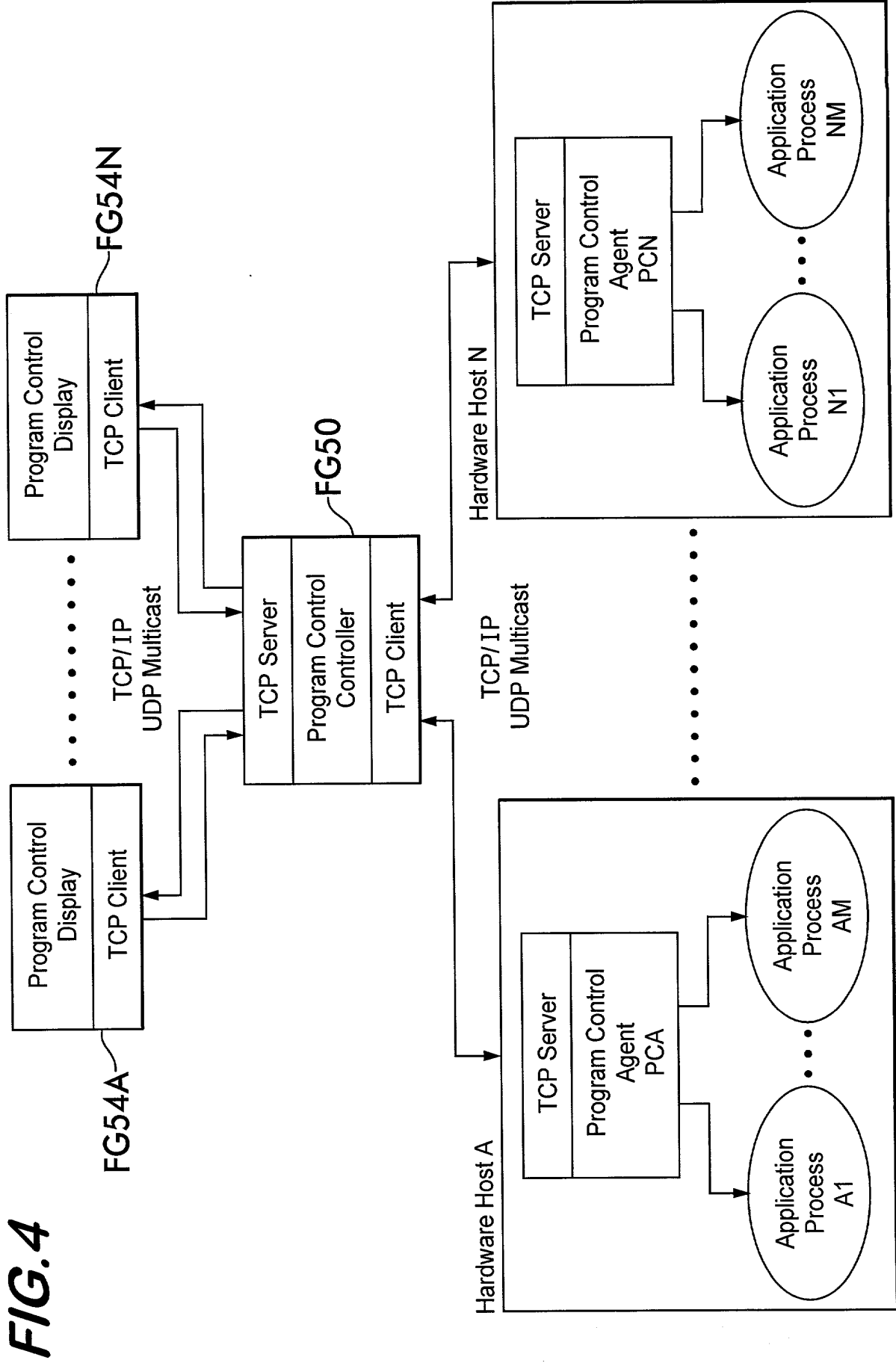


FIG. 5A

Program Control Display

File

Edit Options

Tools

Start Selected

Stop Selected

Start Configuration

Stop All

Host Info

Available Hosts

Hostname

alpha1

alpha2

alpha3

serpens

adara1

adara2

adara3

adara4

adara5

pallas

□

Edit Mode

Without Dependencies

□

Run-Order View

□

Application

AAW:Displays:State_Server

AAW:Displays:fcterm

AAW:Displays:Tactical_Picture

AAW:Tactical_Services:Engagement_Server

AAW:Tactical_Services:Engagement_Server

AAW:Tactical_Services:Engagement_Server

AAW:Tactical_Services:Deconfliction_Server

AAW:Tactical_Services:Doctrine_Server

DIICOE:DII_COE_Services:Tdbm

DIICOE:DII_COE_Services:DII_COE_Broker

DIICOE:DII_COE_Display

Hostname

alpha1

alpha1

alpha1

serpens

alpha1

alpha3

alpha2

alpha2

draco

draco

lepus

Process ID

Help

(SEE FIG. 5B)

Auto	lafonte	AAW:Tactical_Services:Manual_Engage	serpens
Manual	lafonte	AAW:Tactical_Sims:WCS_Simulator	alphe3
Auto	lafonte	AAW:Tactical_Sims:Gun_Simulator	serpens
Auto	lafonte	AAW:Tactical_Sims:CFF_Broker	serpens
Manual	lafonte	IDSys:ID_Broker	corvus
Manual	lafonte	IDSys:SpyServer	deneb2
Auto	lafonte	AAW:Tactical_Sims:IDU_Simulator	serpens
Auto	lafonte	AAW:Doctrine:Auto_Special	serpens

ursa	
algol	
carina	
cetus	
corvus	
cordelia	
draco	
juliet	
leda	

Alerts

FIG. 5B

FIG. 6A

(SEE FIG. 6B)

FIG. 6A

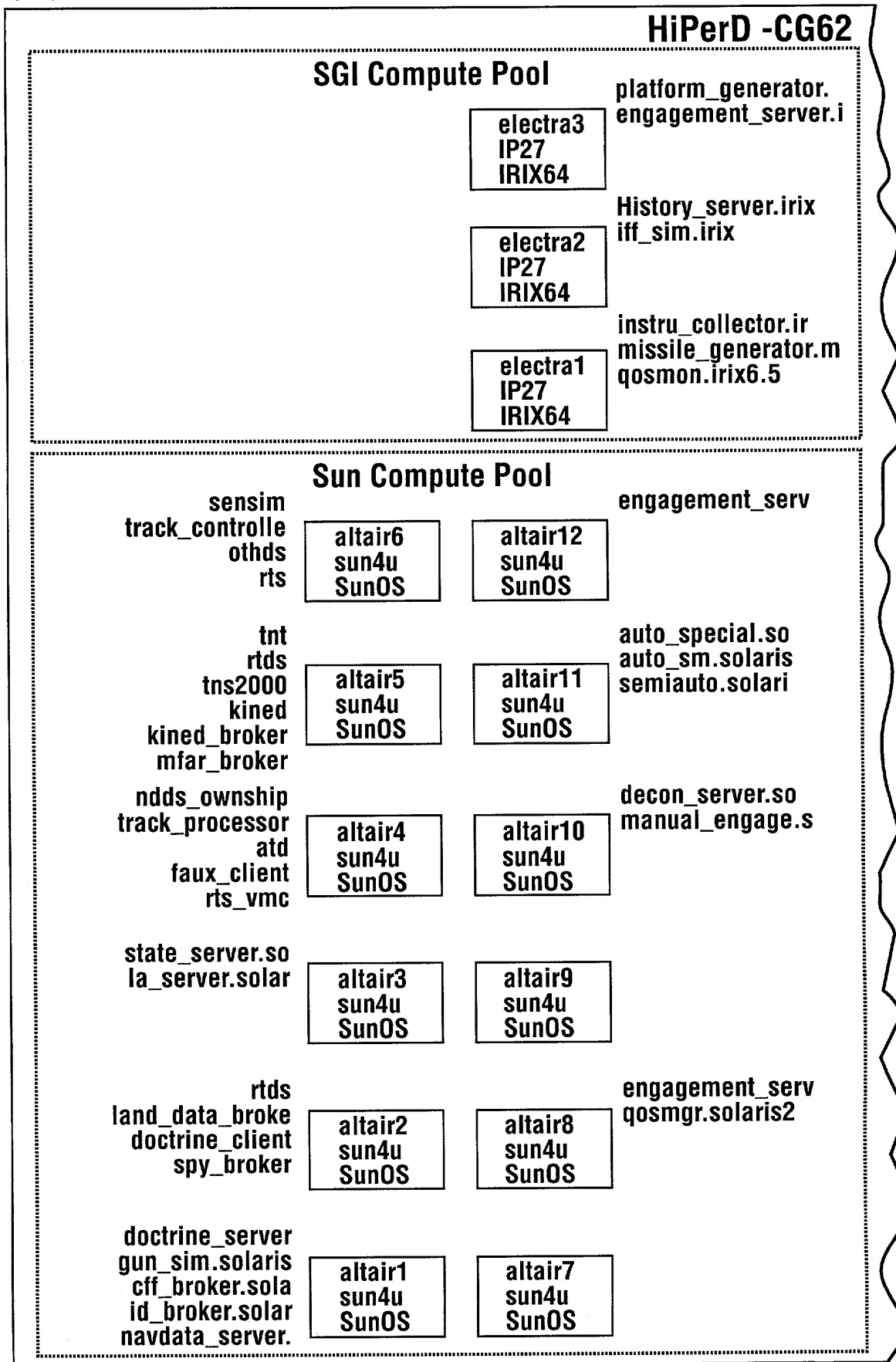


FIG.6B

Chancellorsville

DISBroker.linux
globus-daemons-
lrmstatus.csh
globusbroker.li
globusbroker.li
globusbroker.li
globusbroker.li
mfar_sim.ndds.l

Linux Compute Pool

lupus1
Pentium III (c
Linux

lupus11
Pentium III (c
Linux

lupus10
Pentium III (c
Linux

lupus9
Pentium III (c
Linux

lupus8
Pentium III (c
Linux

lupus7
Pentium III (c
Linux

lupus6
Pentium III (c
Linux

lupus5
Pentium III (c
Linux

lupus4
Pentium III (c
Linux

lupus3
Pentium III (c
Linux

lupus2
Pentium III (c
Linux

WinNT Compute Pool

java

phoebe7
Pentium Pro
Windows NT

java
java
java

phoebe6
Pentium Pro
Windows NT

java

phoebe4
Pentium Pro
Windows NT

phoebe3
Pentium Pro
Windows NT

java

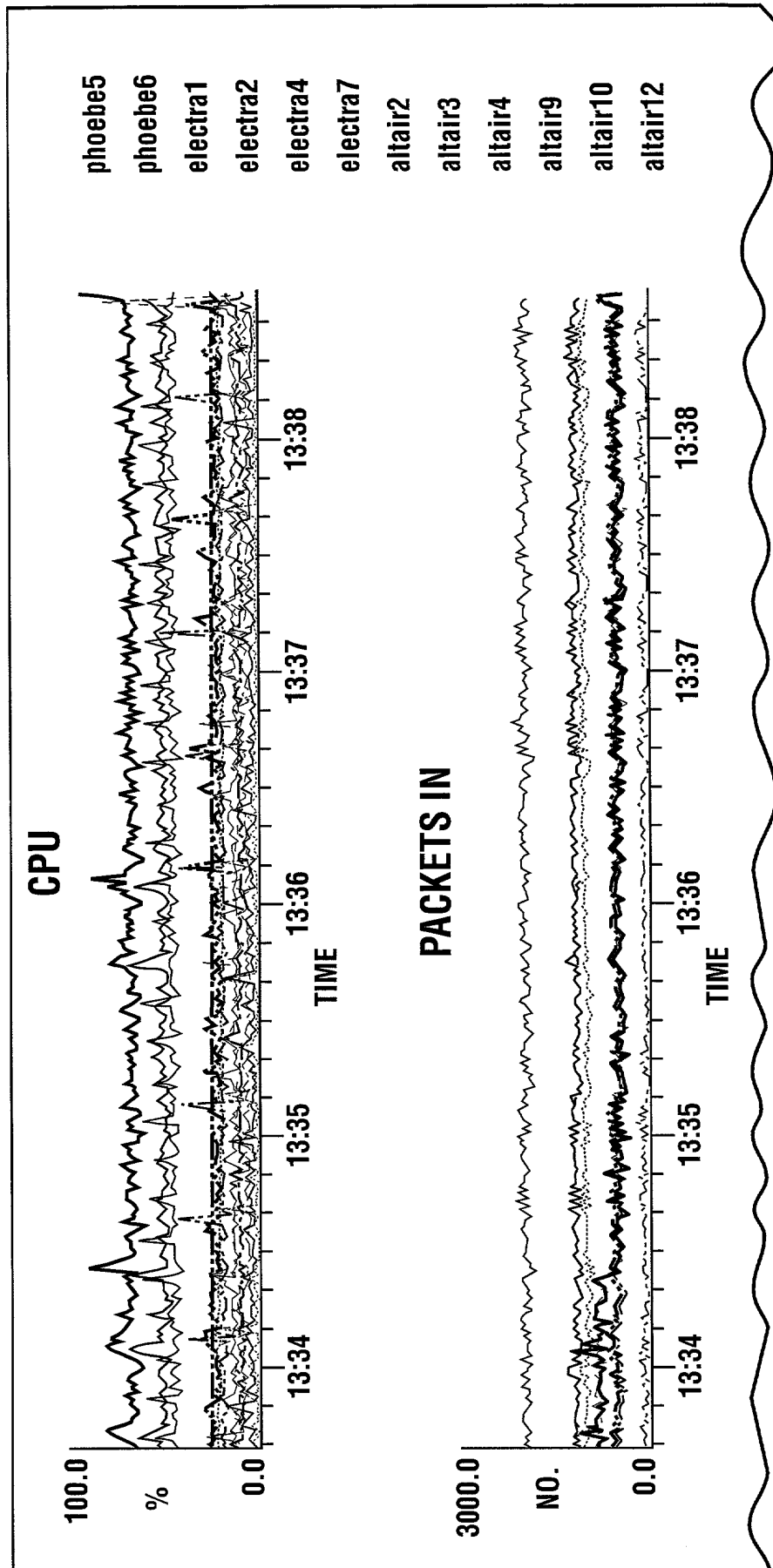
phoebe2
Pentium Pro
Windows NT

java

phoebe1
Pentium Pro
Windows NT

0964824.091901
FIG.6B

FIG.7A



(SEE FIG.7B)

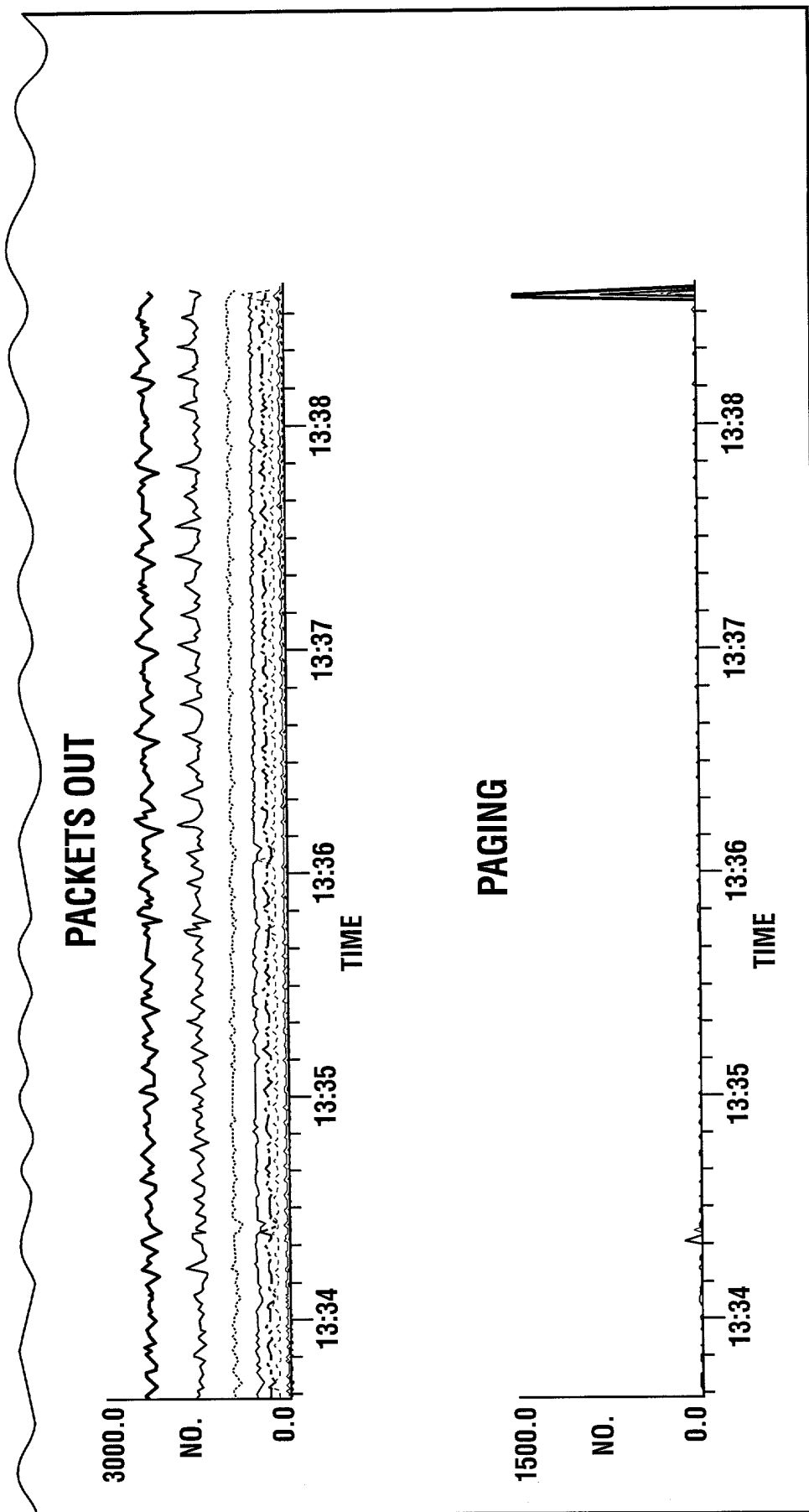
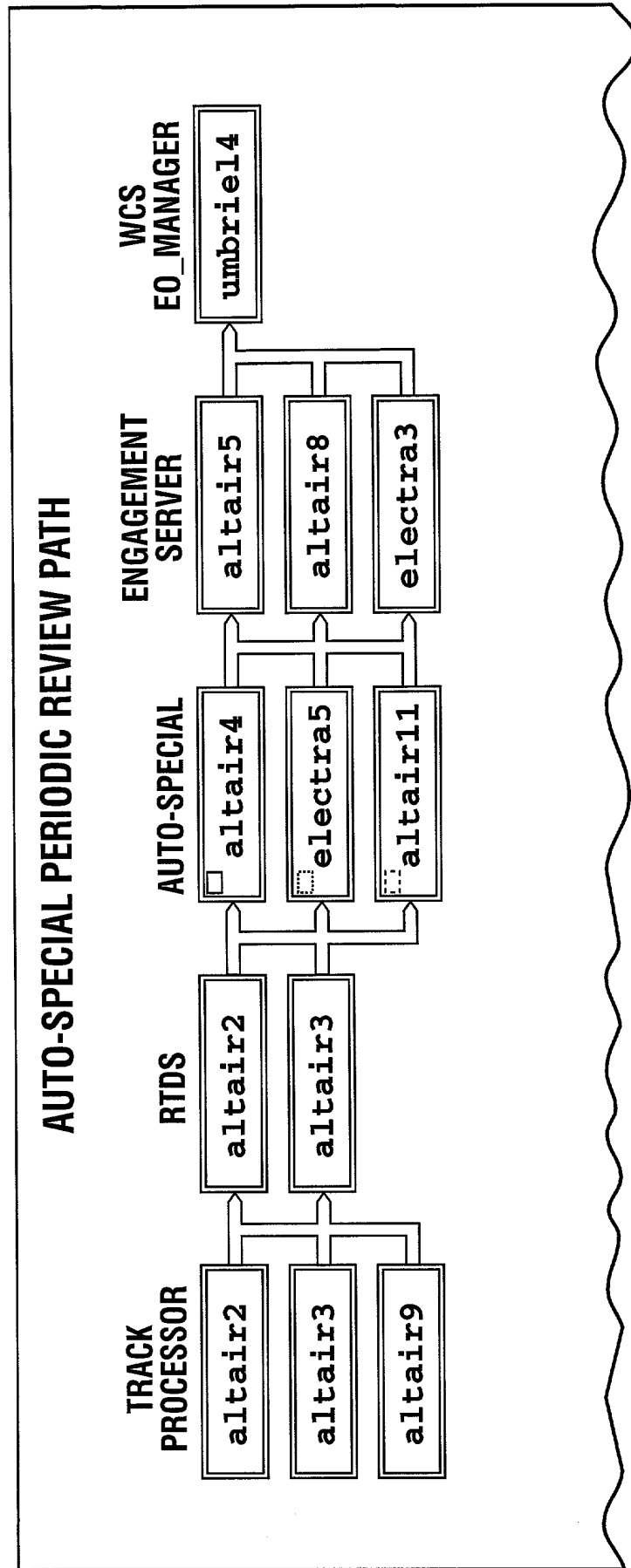


FIG.7B

FIG. 8A



(SEE FIG. 8B)

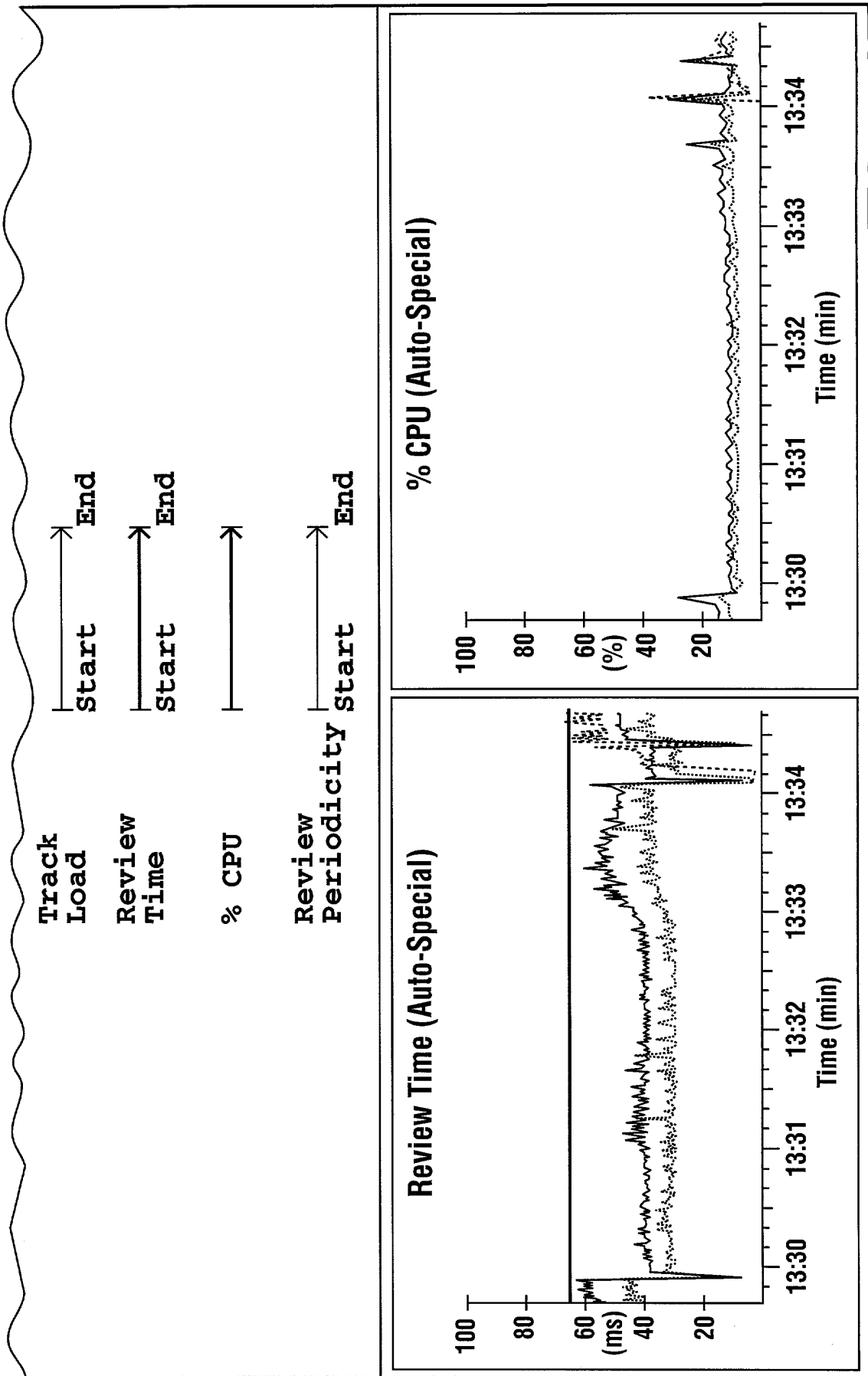


FIG.8B

FIG.9A

Resource Management			
EVENTS HISTORY		SCALE UP PLOT	
EVENT#	ACTION TYPE	APPLICATION NAME	HOST EVENT HOST ACTION
25	Application Scale Down	TBM_Doctrine	lupus7
26	Application Scale Down	TBM_Doctrine	lupus7
27	Application Scale Down	Engageability	altair10
28	Application Scale Down	Engageability	altair12
29	Application Scale Down	Engageability	altair8
32	Application Restarted	QosManager_SpyDeclaredAS	orion1
33	Application Scale Up	Semi_Auto	altair11
34	Application Scale Up	Semi_Auto	altair11
35	Application Scale Up	Auto_Special	altair11
36	Application Scale Up	Semi_Auto	altair11 altair3
<p>APPLICATION: Semi_Auto EVENT#: 36</p> <p>EVENT: Application Overload</p> <p>PID:9615 ON HOST altair11</p> <p>EVENT TIME: 14:24:56.6355</p> <p>ACTION: Application Scale Up</p> <p>PID:10186 ON HOST altair3</p> <p>ACTION TIME: 14:24:56.6427 14:24:56.6446</p> <p>RESPONSE TIME: 0.0073 0.0491</p>			
<p>APPLICATION: Auto_Special EVENT#: 35</p> <p>EVENT: Application Overload</p> <p>PID:9613 ON HOST altair11</p> <p>EVENT TIME: 14:24:33.2620</p> <p>ACTION: Application Scale Up</p>			

(SEE FIG.9B)

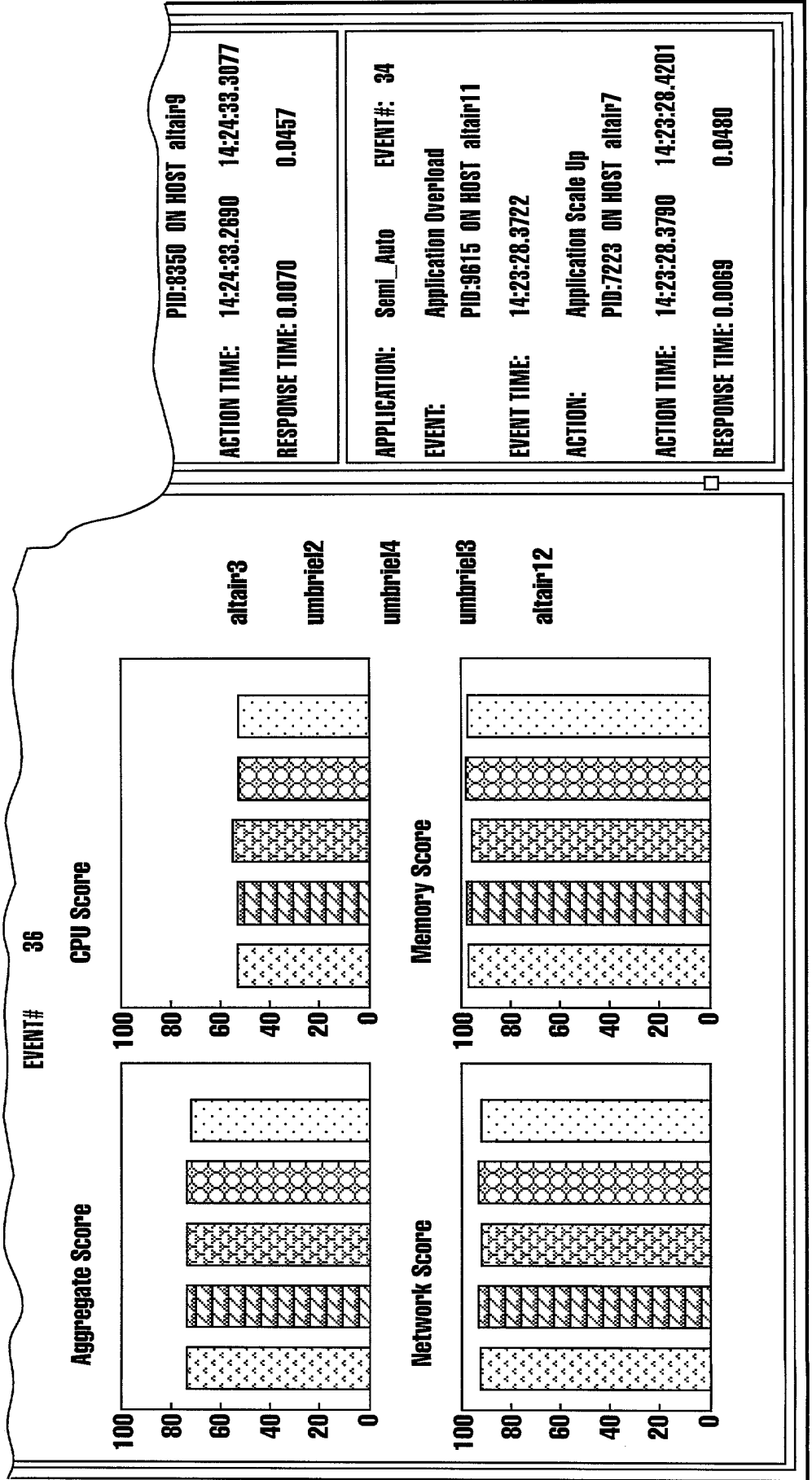
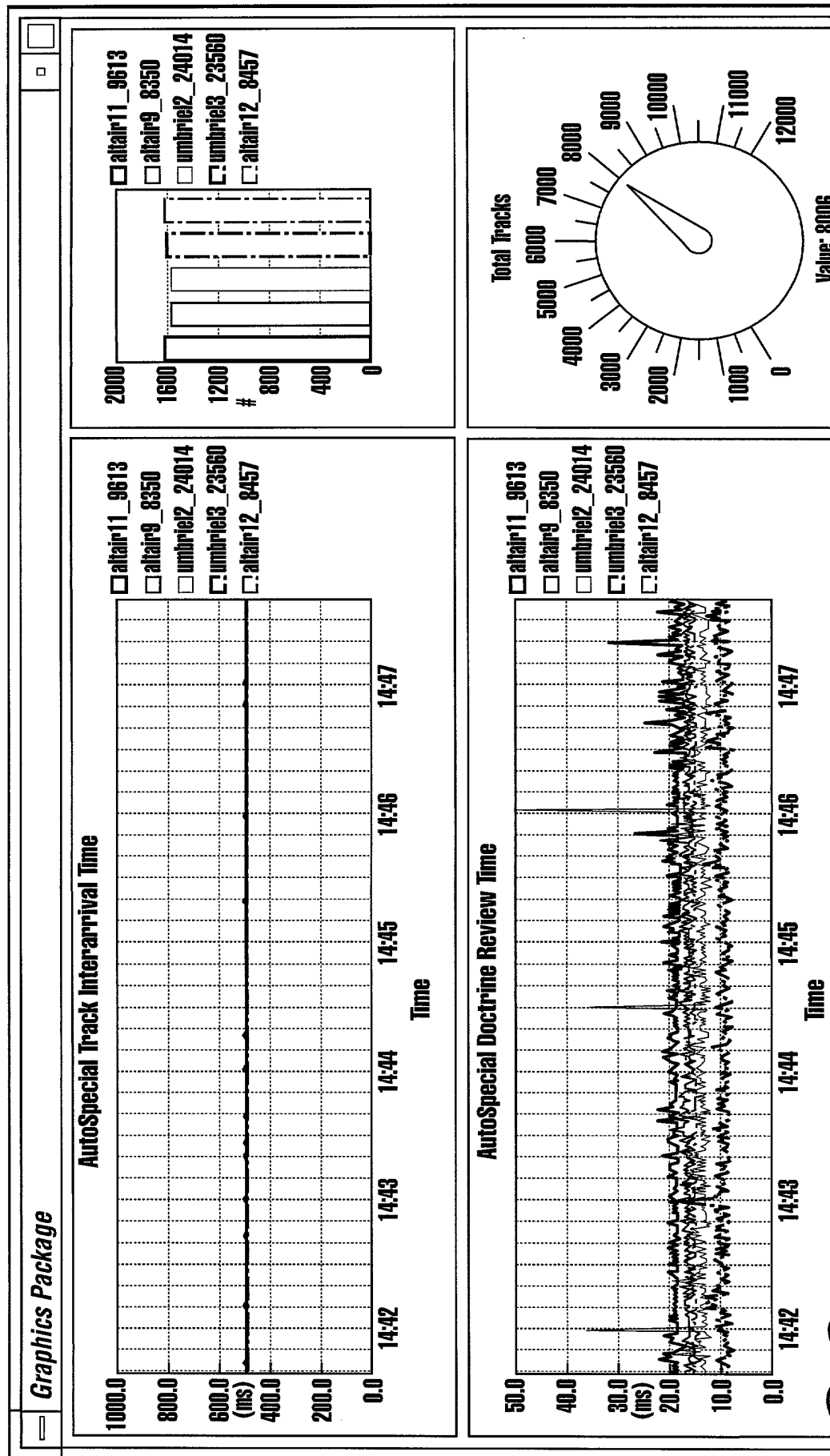


FIG.9B

FIG.10A



(SEE FIG.10B)

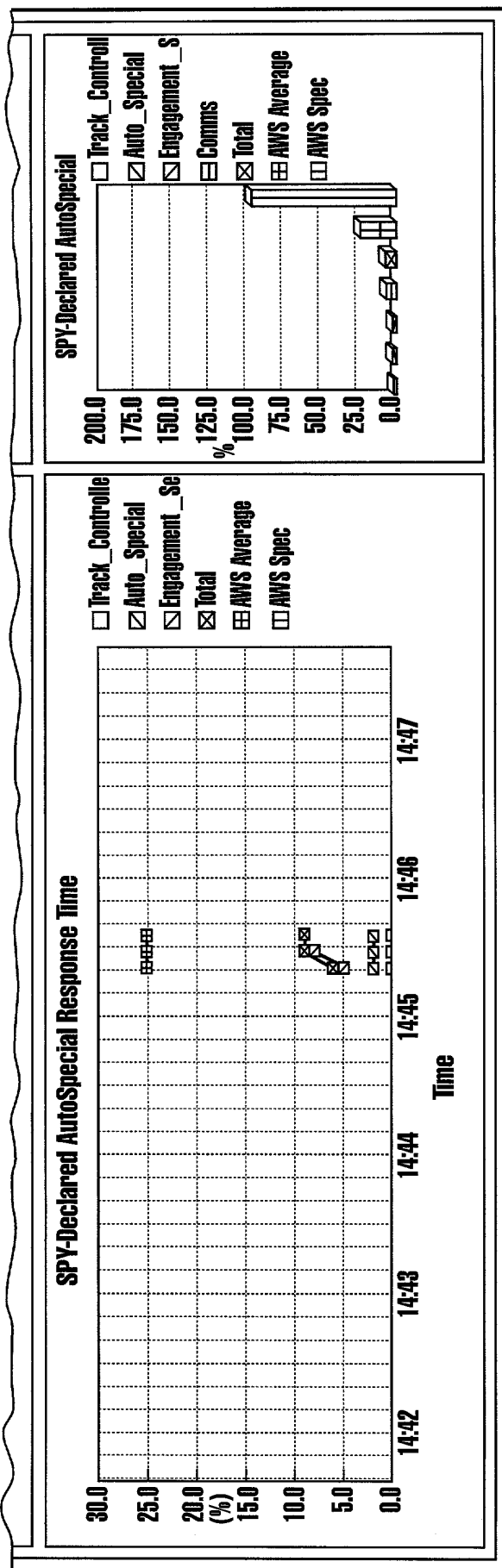
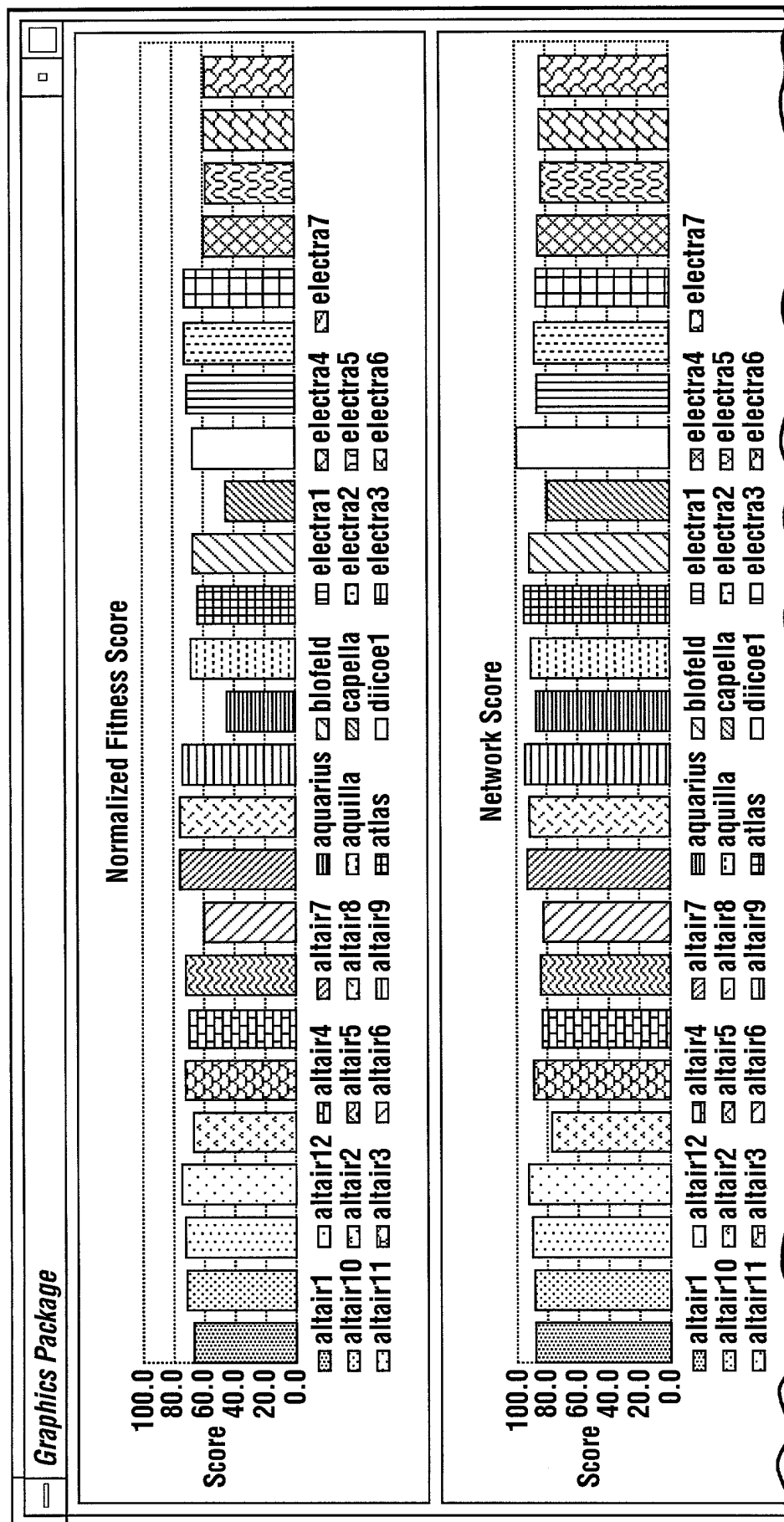


FIG.10B

FIG. 11A



(SEE FIG. 11B)

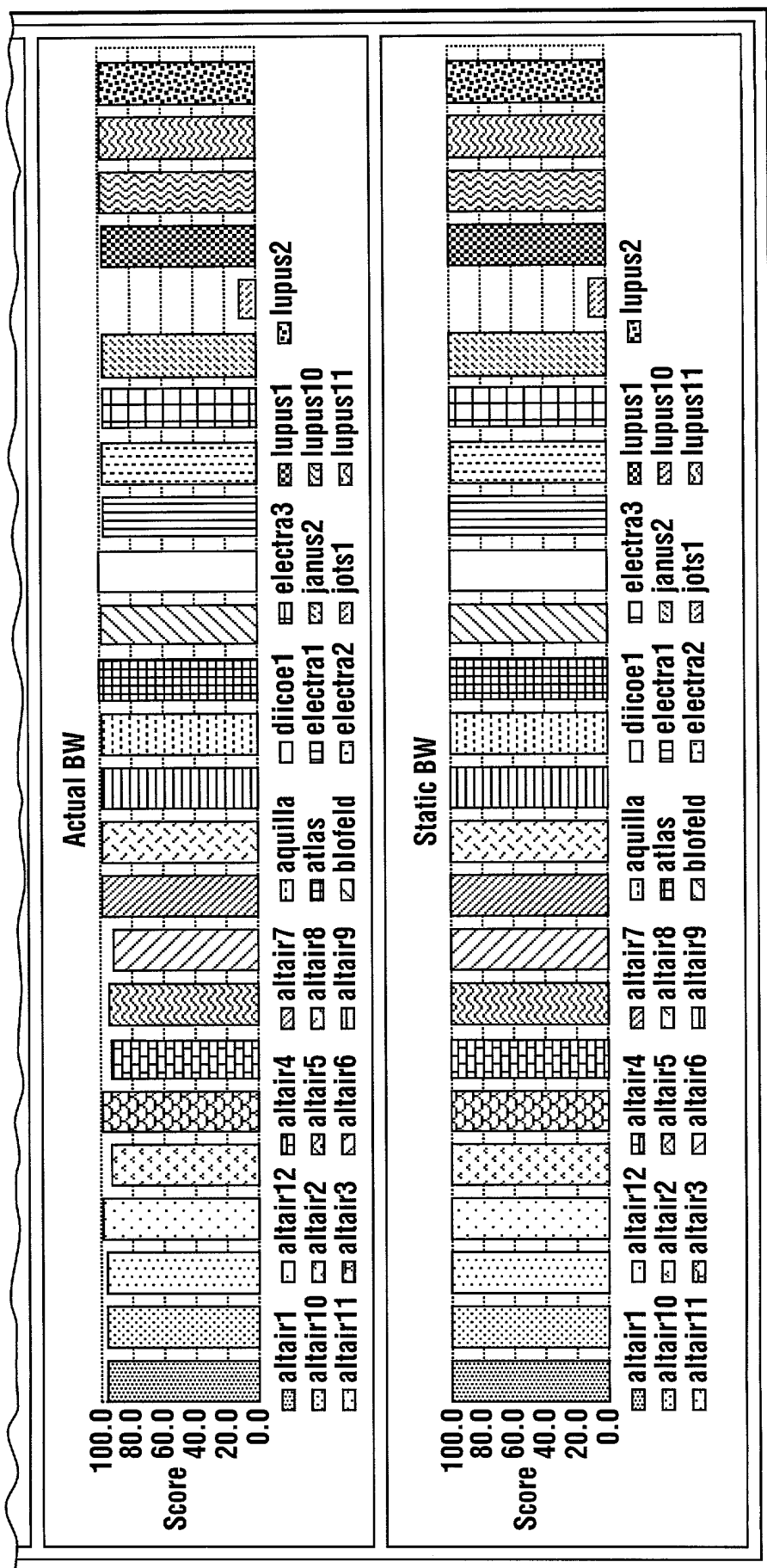
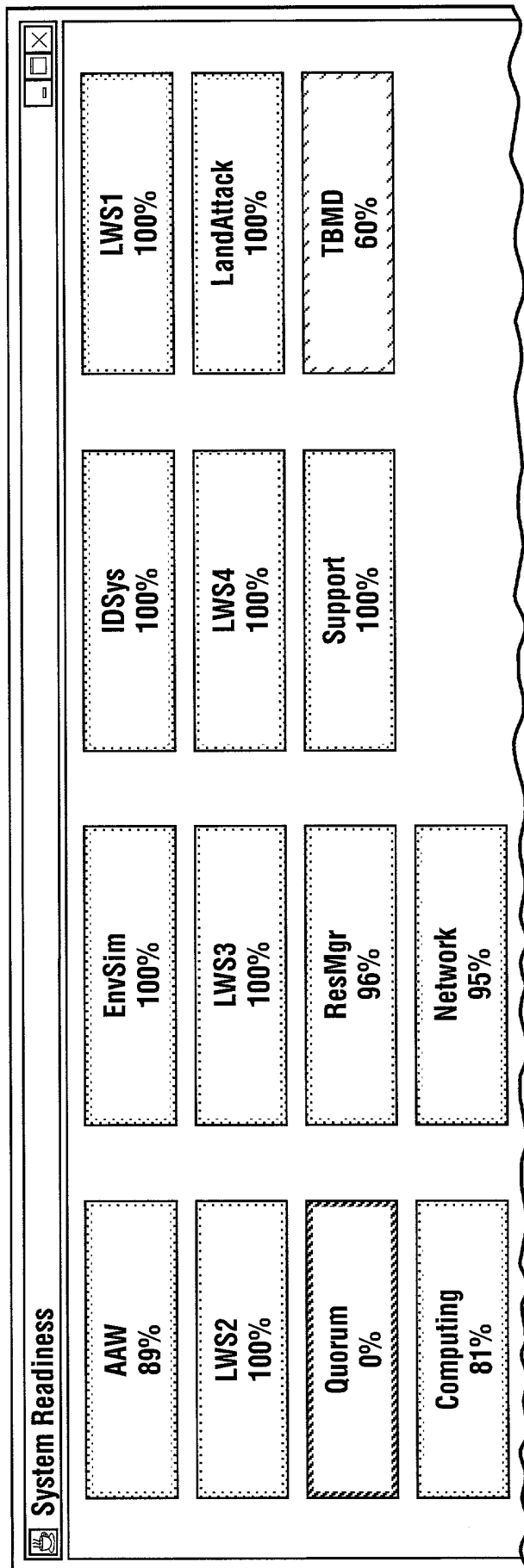


FIG.11B

FIG.12A



(SEE FIG.12B)

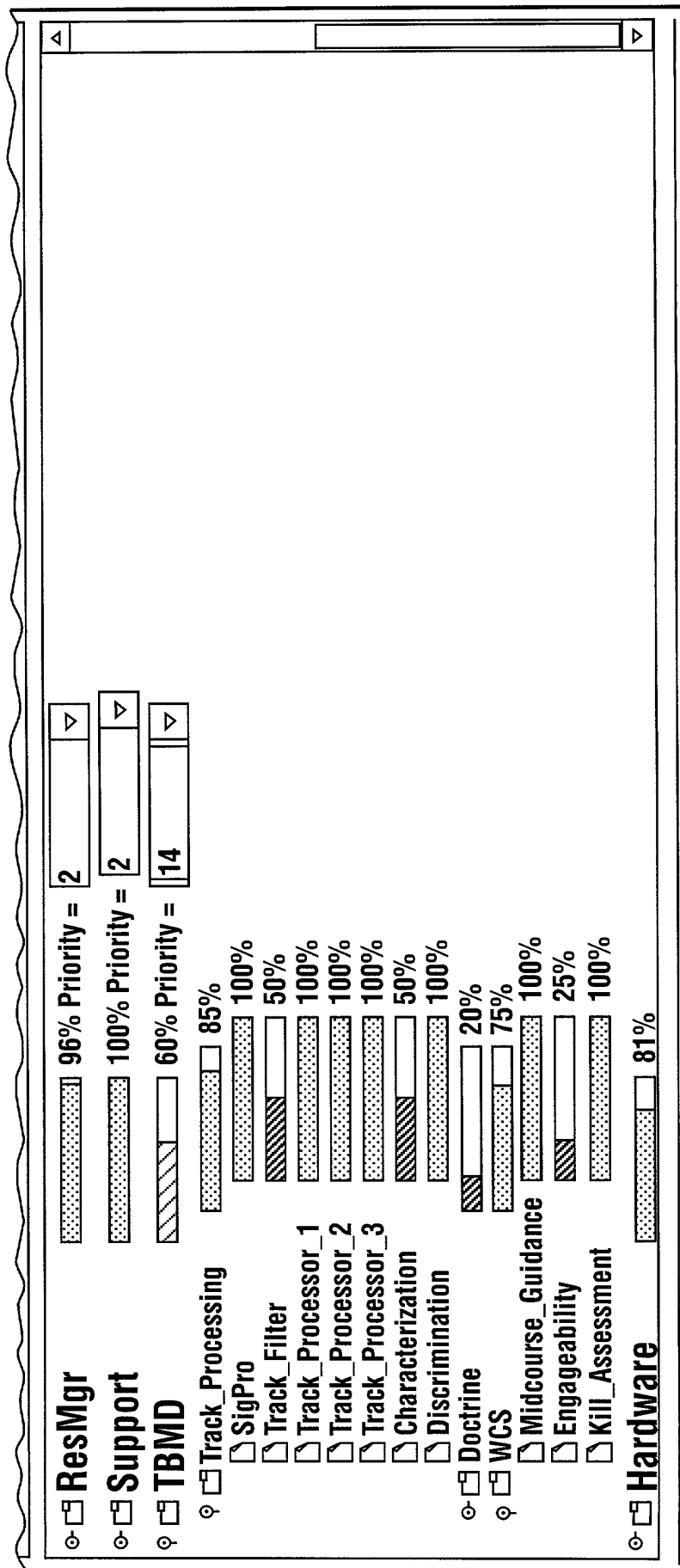
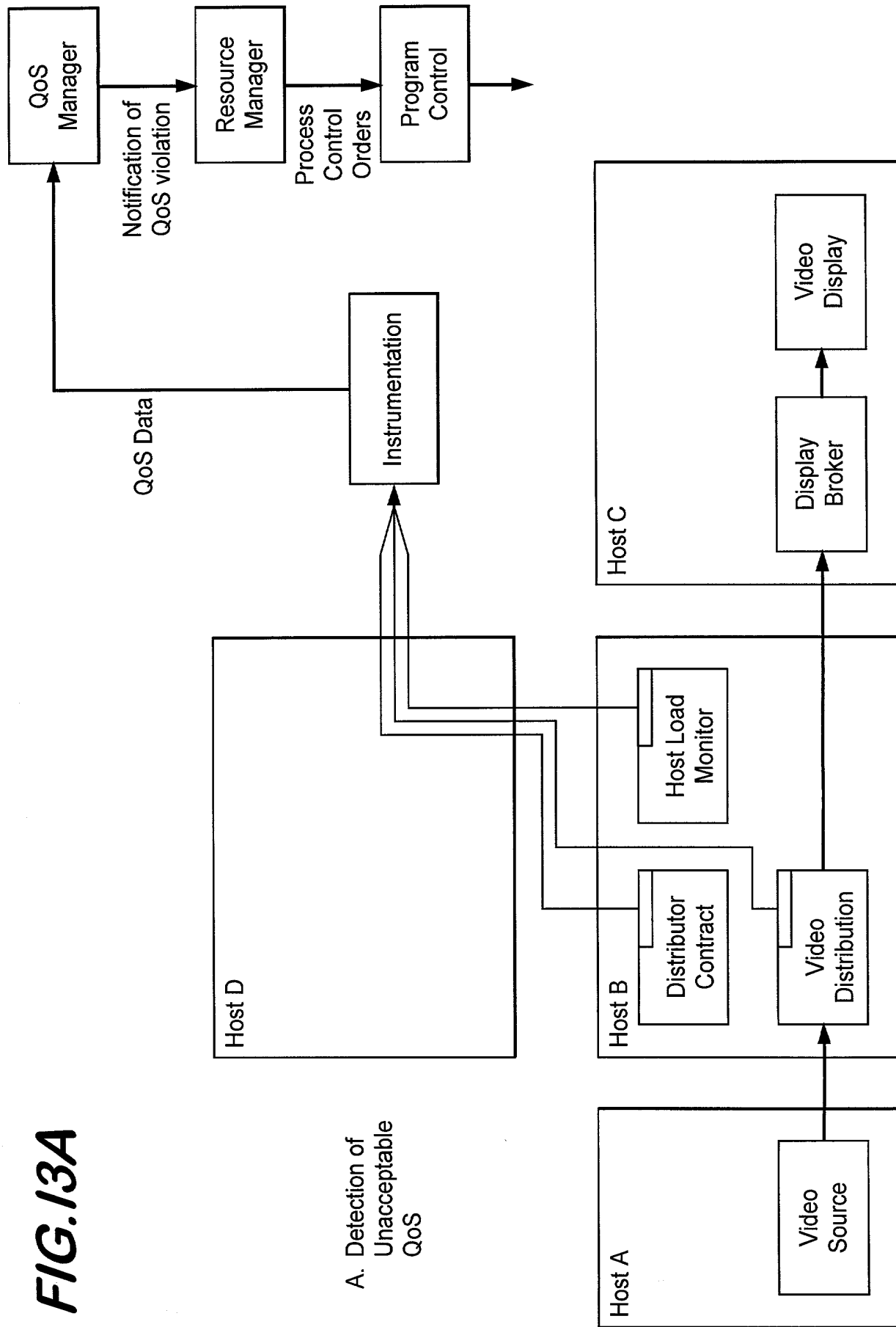


FIG.12B

FIG. 13A

A. Detection of Unacceptable QoS



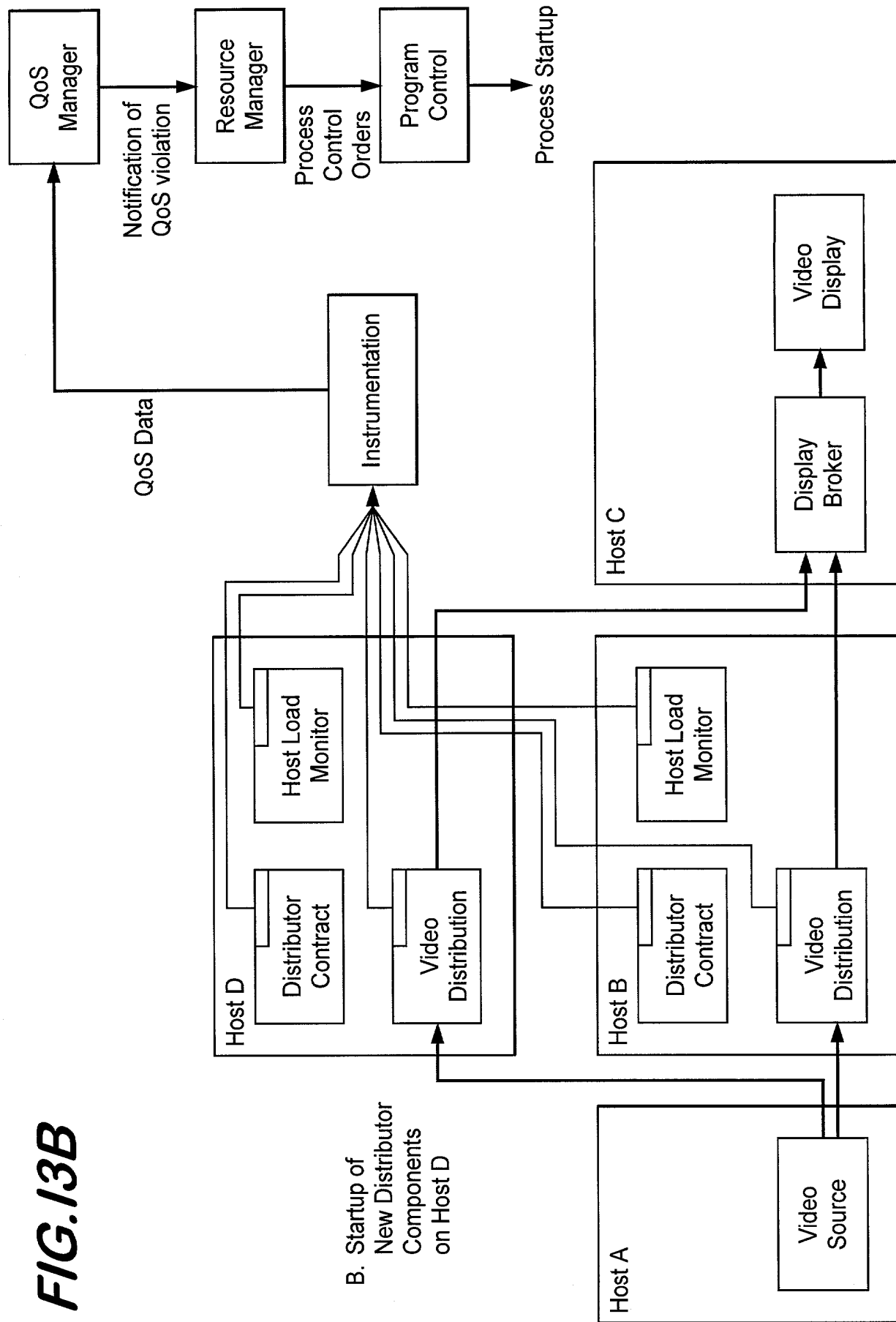
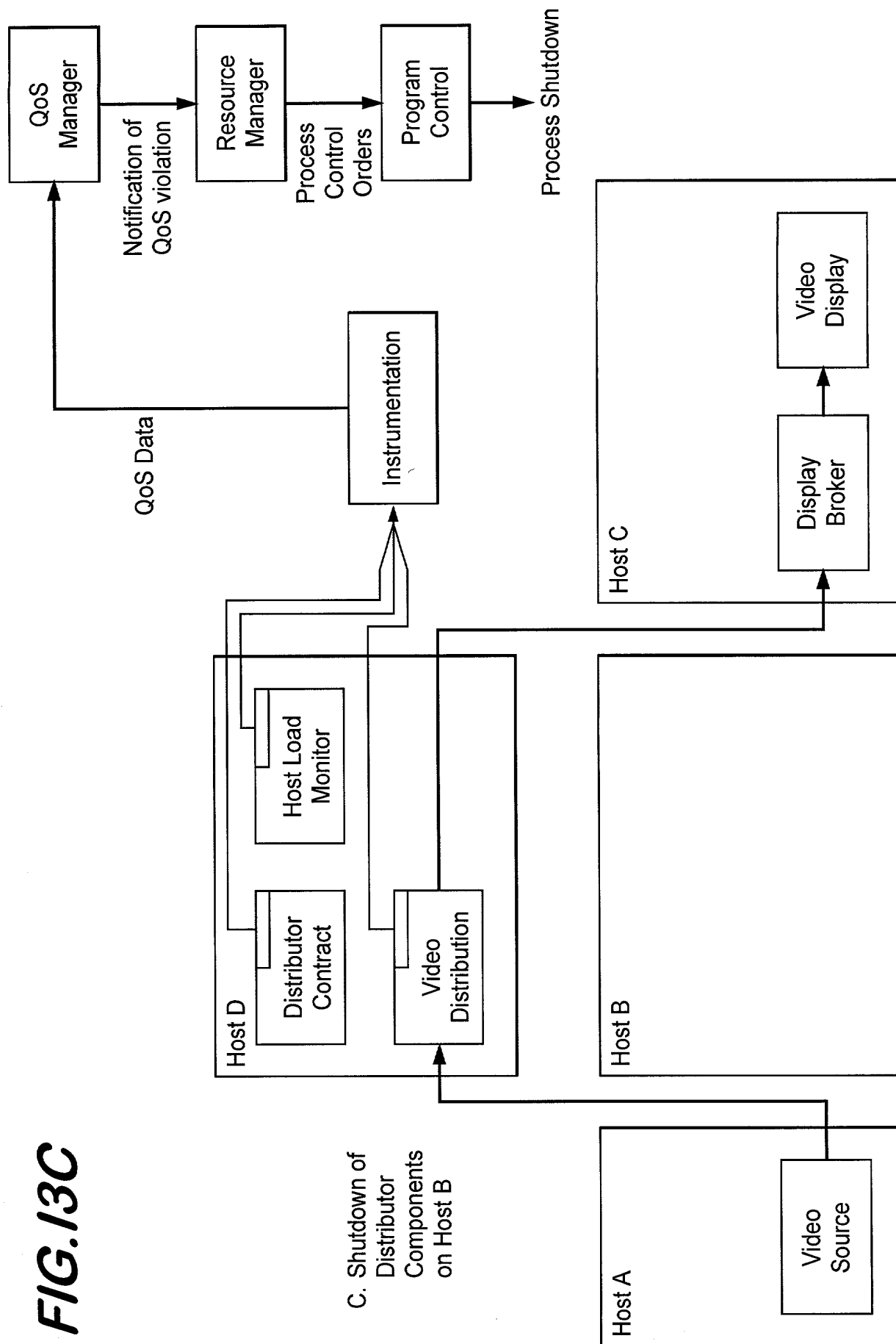


FIG. 13B

B. Startup of
New Distributor
Components
on Host D

FIG. 13C



C. Shutdown of
Distributor
Components
on Host B

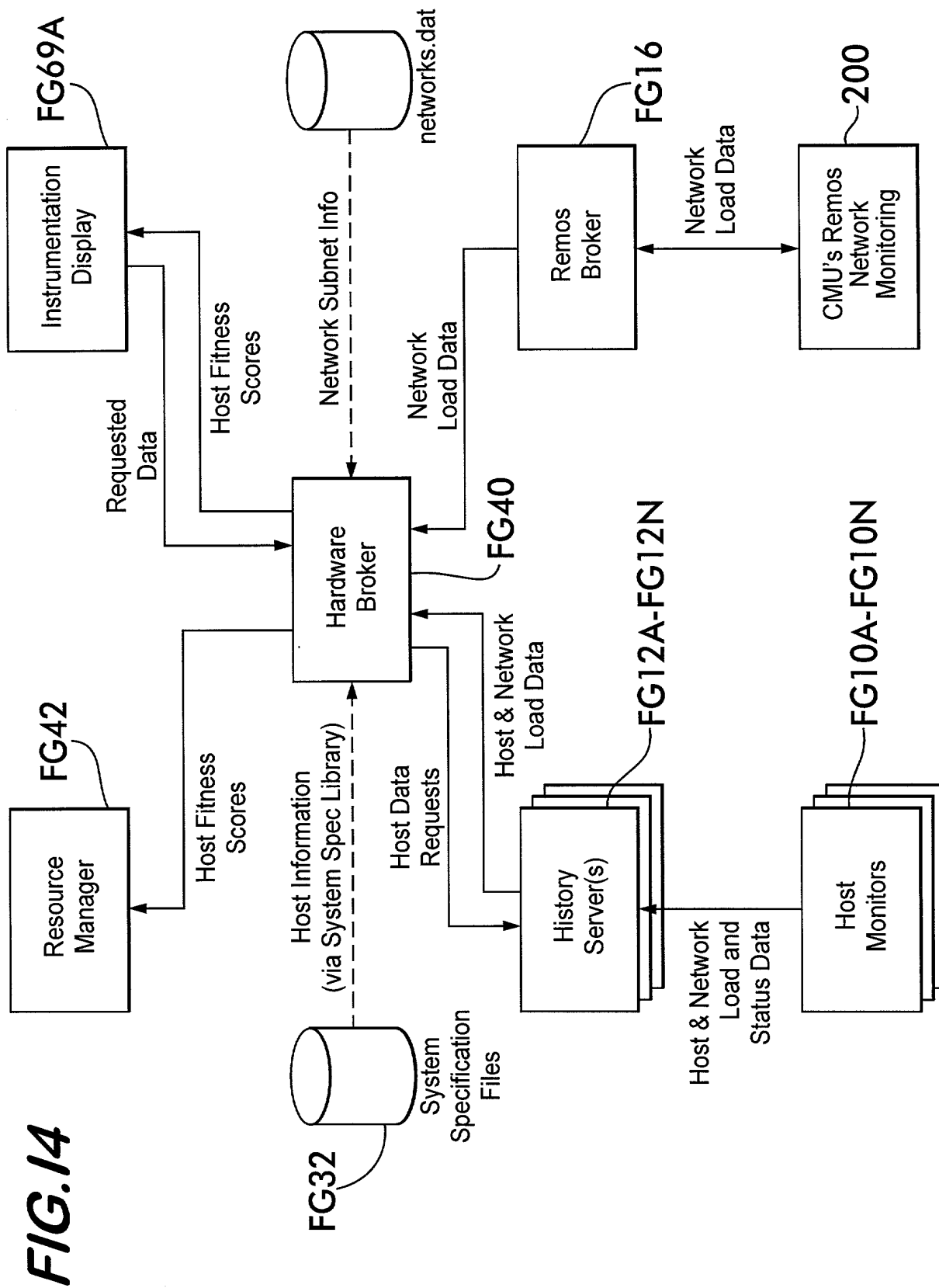


FIG.15

